



IFW 1637  
EP

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE  
(Our Case No. 01-661-A)

PATENT

In re Application of: )  
 )  
Mirkin, et al. ) Examiner: T. Strzelecka  
 )  
Serial No. 10/034,451 ) Group Art Unit: 1637  
 )  
Filed: December 28, 2001 ) Confirmation No.: 9317  
 )  
For: Non-Alloying Core Shell Nanoparticles )

**TRANSMITTAL LETTER**

Mail Stop: Amendment  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

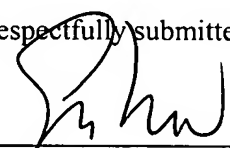
Sir:

- In regard to the above identified application.
1. We are transmitting herewith the attached:
    - a) Fourteenth Supplemental Information Disclosure Statement (2 sheets);
    - b) Form PTO-1449 (1 sheet);
    - c) 6 cited references;
    - d) Check in the amount of \$180.00; and
    - e) Return Postcard.
  2. With respect to fees:
    - a) A check in the amount of \$180.00 is enclosed.
    - b) General Authorization: Please charge any underpayment or credit any overpayment our Deposit Account No. 13-2490.
  3. CERTIFICATE OF MAILING UNDER 37 CFR § 1.8: The undersigned hereby certifies that this Transmittal Letter and the paper, as described in paragraph 1 hereinabove, are being deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to Mail Stop Amendment, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on this 26 day of September, 2005.

Respectfully submitted,

Date:

Sept. 26, 2005

  
Emily Miao  
Registration No. 35,285



PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE  
(MBHB Case No. 01-661-A)

In the Application of:	)	
Mirkin et al.	)	Examiner: T. Strzelecka
Serial No.: 10/034,451	)	Group Art Unit: 1637
Filing Date: December 28, 2001	)	Confirmation No. 9317
Title: Non-Alloying Core Shell Nanoparticles	)	

**FOURTEENTH SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT**

Mail Stop Amendment  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Dear Sir:

Pursuant to 37 C.F.R. Section 1.97 - 1.99, the Applicants wish to make the following references of record in the above-identified application. This Information Disclosure Statement is in compliance with the continuing duty of candor as set forth in 37 C.F.R. Section 1.56. Copies of the required references listed on the enclosed PTO Form 1449 are also enclosed herewith. Pursuant to 37 C.F.R. Section 1.97(e), the references cited herein were cited in a communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this statement. Thus, no fee is due.

In the judgment of the undersigned, portions of the listed references may be material to the Examiner's consideration of the presently pending claims. However, the references have not been reviewed in sufficient detail to make any other representation and, in particular, no representation is intended as to the relative relevance between references, whether cited in this or prior statements. This statement is not a representation that the listed references have effective dates early enough to be "prior art" within the meaning of 35 U.S.C. Section 102 or Section 103.

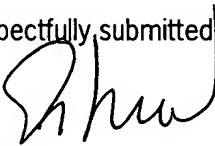
In accordance with MPEP Sections 609 and 707.05(b), it is requested that the documents cited (including any cited in applicant's specification which is not repeated on the attached Form PTO-1449) be given thorough consideration and that it be cited of record in the prosecution history of the present application by initialing on Form PTO-1449. Such initialing is

requested even if the Examiner does not consider a cited document to be sufficiently pertinent to use in a rejection, or otherwise does not consider it to be prior art for any reason, or even if the Examiner does not believe that the guidelines for citation have been fully complied with. This is requested so that each document becomes listed on the face of the patent issuing on the present application.

Respectfully submitted,

Date: September 26, 2005

By:



Emily Miao  
Reg. No. 35,285

**McDonnell, Boehnen Hulbert & Berghoff LLP**

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FORM PTO-1449  
(Rev. 2-32)U.S. Department of Commerce  
Patent and Trademark Office

Atty. Docket No.

Serial No.

01-661-A

10/034,451

**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**  
(Use several sheets if necessary)

Applicant:

Mirkin et al.

Filing Date:

December 28, 2001

Group:

1637

## U.S. PATENT DOCUMENTS

Examiner Initial		Document Number	Date	Name	Class	Subclass	Filing Date if Appropriate
	1	6,159,378	12/12/2000	Holman et al.	210	695	

## FOREIGN PATENT DOCUMENTS

Examiner Initial		Document Number	Date	Country	Class	Subclass	Translation
							Yes No
	2	WO 95/22639	08/24/1995	PCT			
	3	WO 98/04740	02/05/1998	PCT			
	4	WO 01/06257	01/25/2001	PCT			

## OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc).

	5	Cao et al., "DNA-Modified Core-Shell Ag/Au Nanoparticles", <i>J. Am. Chem. Soc.</i> , 2001, 123, 7961-7962.
	6	Remita et al., "Radiolytic formation of bilayered Pt <sub>core</sub> /Au <sub>shell</sub> and Au <sub>core</sub> /Pt <sub>shell</sub> clusters in aqueous solution", <i>Radiation Physics and Chemistry</i> , 54 (1999) 463-473.
	7	Wang et al., "The surface chemistry of hybrid nanometer-sized particles I. Photochemical deposition of gold on ultrafine TiO <sub>2</sub> particles", <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 131 (1998) 271-280.
EXAMINER		DATE CONSIDERED

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication.